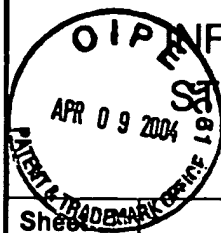


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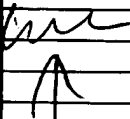
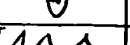
Application Number	09/800,932
Filing Date	03/06/2001
First Named Inventor:	Michael J. Gormish
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1

Sheet 1

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		us-	3,580,655	5/25/1971	Leith et al.	
		us-	3,950,103	4/13/1976	Schmidt-Weinmar	
		us-	4,136,954	1/30/1979	Jamieson	
		us-	4,155,097	5/15/1979	Lux	RECEIVED APR 13 2004 Technology Center 2600
		us-	4,190,861	2/26/1980	Lux	
		us-	4,223,354	9/16/1980	Noble et al.	
		us-	4,393,456	7/12/1983	Marshall, Jr.	
		us-	4,437,087	3/13/1984	Petr	
		us-	4,569,075	2/4/1986	Nussbaumer	
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		us-	4,652,881	3/24/1987	Lewis	
		us-	4,663,660	5/5/1987	Fedele et al.	
		us-	4,674,125	6/16/1987	Carlson et al.	
		us-	4,701,006	10/20/1987	Perlmutter	
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		us-	4,760,563	7/26/1988	Beylkin	
		us-	4,785,348	11/15/1988	Fonsalas et al.	
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		us-	4,799,179	1/17/1989	Masson et al.	
		us-	4,805,129	2/14/1989	David	
		us-	4,815,023	3/21/1989	Arbeiter	
		us-	4,817,182	3/28/1989	Adelson et al.	
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		us-	4,827,336	5/2/1989	Acampora et al.	
		us-	4,829,378	5/9/1989	Le Gall	
		us-	4,837,517	6/6/1989	Barber	
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		us-	4,881,075	11/14/1989	Weng	
		us-	4,894,713	1/16/1990	Delogne et al.	
		us-	4,897,717	1/30/1990	Hamilton et al.	
		us-	4,899,147	2/6/1990	Schiavo et al.	
		us-	4,904,073	2/27/1990	Lawton et al.	
		us-	4,918,524	4/17/1990	Ansari et al.	
		us-	4,922,544	5/1/1990	Stansfield et al.	
		us-	4,929,223	5/29/1990	Walsh	
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		us-	4,936,665	6/26/1990	Whitney	
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		us-	4,974,187	11/27/1990	Lawton	
		us-	4,982,283	1/1/1991	Acampora	

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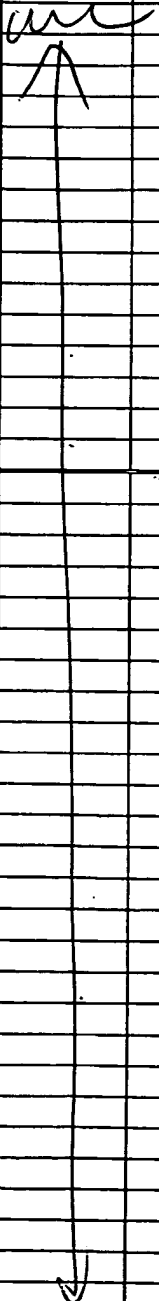
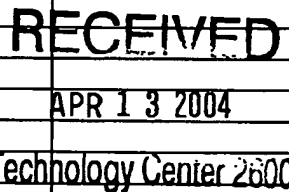
Application Number	09/800,932
Filing Date	03/06/2001
First Named Inventor:	Michael J. Gormish
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1

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Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		US-	4,985,927	1/15/1991	Norwood et al.	
		US-	4,987,480	1/22/1991	Lippman et al.	
		US-	4,999,705	3/12/1991	Puri	
		US-	5,000,183	3/19/1991	Bonnefous	
		US-	5,001,764	3/19/1991	Wood et al.	
		US-	5,014,134	5/7/1991	Lawton et al.	
		US-	5,018,210	5/21/1991	Merryman et al.	
		US-	5,049,992	9/17/1991	Citta et al.	
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		US-	5,068,911	11/26/1991	Resnikoff et al.	
		US-	5,072,308	12/10/1991	Lin et al.	
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		US-	5,097,261	3/17/1992	Langdon, Jr. et al.	
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Application Number	09/800,932
Filing Date	03/06/2001
First Named Inventor:	Michael J. Gormish
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

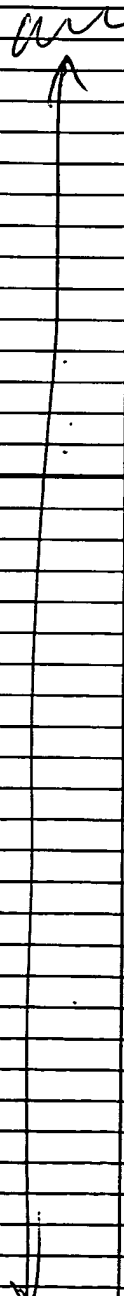
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Sheet 3

of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		us-	5,414,780	5/9/1995	Camahan	
		us-	5,416,604	5/16/1995	Park	
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		us-	5,754,793	5/19/1998	Eom et al.	
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		us-	6,020,975	2/1/2000	Chen et al.	
		us-	6,026,198	2/15/2000	Okada	
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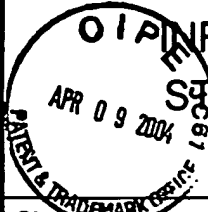
Application Number	09/800,932
Filing Date	03/06/2001
First Named Inventor:	Michael J. Gormish
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1

Sheet	4	of	8
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Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Substitute for Form 1449/PTO			Complete if Known	
			Application Number	09/800,932
			Filing Date	03/06/2001
			First Named Inventor:	Michael J. Gormish
			Art Unit	2624
			Examiner Name	Wenpeng Chen
			Attorney Docket Number	074451.P127D1
Sheet	5	of	8	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		
me	↑	EPO	0510933 A1		Canon Kabushiki Kaisha	
		EPO	0593013 A2		Kabushiki Kaisha Toshiba	
		EPO	0611051 A1		Canon Kabushiki Kaisha	
		EPO	0622741 A2		Klics, Ltd.	
		EPO	0967556 A2		Hewlett-Packard Co.	
		EPO	1035511 A2		Canon Kabushiki Kaisha	
		EPO	1164781 A1		Matsushita Electric Ind. Co., Ltd	
		EPO	701375 A2		Xerox Corporation	
		JP	06-245077		Nec Corp.	
		JP	406038193 A		Casio Computer Co. Ltd.	
		JP	6-350989		Fuji Photo Film Co. Ltd.	
		JP	7-79350		Fuji Photo Film Co. Ltd.	
		PCT	WO 00/49571		Digital Accelerator Corp.	
		PCT	WO 01/16764 A1		Rtimage Inc.	
		PCT	WO 88/10049		Eastman Kodak Co.	
		PCT	WO 91/03902		Aware, Inc.	
		PCT	WO 91/18361		Yale University	
		PCT	WO 93/10634		General Electric Co.	
		PCT	WO 94/17492		David Sarnoff Research Ctr., Inc.	
		PCT	WO 94/23385		Lewis, Adrian	
		PCT	WO 95/19683		Houston Advanced Research Ctr.	
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		UK	GB 2 211 691 A		Hitachi Ltd.	
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		UK	GB 2 285 374 A		Ricoh Company Ltd.	
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		UK	GB 2 303 030 A		Ricoh Company Ltd.	
		UK	GB 2 303 031 A		Ricoh Company Ltd.	
		UK	GB 2 341 035 A		Ricoh Company Ltd.	

Examiner Signature		WENPENG CHEN PRIMARY EXAMINER	Date Considered	1/6/05
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Substitute for Form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) APR 09 2004 7 of 8		Application Number	09/800,932
		Filing Date	03/06/2001
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		Art Unit	2624
		Examiner Name	Wenpeng Chen
		Attorney Docket Number	074451.P127D1

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NON PATENT LITERATURE DOCUMENTS

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>W</i>	<i>1</i>	GHARAVI, et al., "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing, 1986, p. 51-61.
<i>W</i>	<i>2</i>	GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.
<i>W</i>	<i>3</i>	HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.
<i>W</i>	<i>4</i>	HOWARD, et al., "Fast and Efficient Lossless Image Compression", IEEE, 1993, pp. 351-360.
<i>W</i>	<i>5</i>	Information Technology - JPEG 2000 Image Coding System - Part 1: Core Coding System, ISO/IEC 15444-1, 12/15/2000, pg. 5, 14, 22.
<i>W</i>	<i>6</i>	International Search Report for Application No.: GB 9518298.6, dated 8. November 1995.
<i>W</i>	<i>7</i>	JPEG 2000 Part 1 Final Committee Draft Version 1.0, Image Compression Standard described in ISO/IEC 1/SC 29/WG 1 N1646, 16 March 2000.
<i>W</i>	<i>8</i>	KOMATSU, et al., "Reversible Subband Coding of Images", SPIE Vol. 2501, pp. 676-648..
<i>W</i>	<i>9</i>	LANGDON, JR., "Sunset: A Hardware-Oriented Algorithm for Lossless Compression of Gray Scale Images", SPIE Vol. 1444, Image Capture, Formatting, and Display, 1991, pp. 272-282.
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<i>W</i>	<i>11</i>	LEWIS, et al., "Image Compression Using the 2-D Wavelet Transform", IEEE Transactions on Image Processing, Vol. 1, No. 2, April 1992, pp. 244-250.
<i>W</i>	<i>12</i>	LUX, P., "A Novel Set of Closed Orthogonal Functions for Picture Coding", 1977, pp. 267-274.
<i>W</i>	<i>13</i>	MARCELLIN, et al., "An Overview of JPEG-2000", Proceedings. DCC 2000 Snowbird, UT, USA, March 28-30, 2000, pp. 523-541, XP010377392.
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<i>W</i>	<i>21</i>	SAID, et al., "Reversible Image Compression Via Multiresolution representation and Predictive Coding", 8/11/93, pp. 664-674.

WENPENG CHEN
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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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First Named Inventor:	Michael J. Gornish
Art Unit	2624
Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1

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NON PATENT LITERATURE DOCUMENTS

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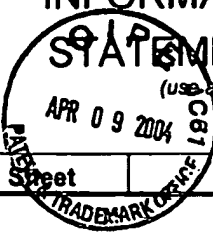
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>me</i>		ANTONINI, et al., "Image Coding Using Wavelet Transform", <u>IEEE Transactions on Image Processing</u> , Vol 1, No. 2, April 1992, pp. 205-220.	
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WENPENG CHEN

PRIMARY EXAMINER

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Substitute for Form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/800,932
		Filing Date	03/06/2001
		First Named Inventor:	Michael J. Gormish
		Art Unit	2624
		Examiner Name	Wenpeng Chen
Attorney Docket Number	074451.P127D1		



Sheet 8 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>[Signature]</i>		SHAH, et al., "A Chip Set for Lossless Image Compression", <u>IEEE Journal of Solid-State Circuits</u> , Vol. 26, No. 3, March 1991, pp. 237-244.
<i>[Signature]</i>		SHAPIRO, J. M., "An Embedded Hierarchical Image Coder Using Zerotrees of Wavelet Coefficients", <u>IEEE</u> , 1993, pp. 214-223.
<i>[Signature]</i>		SHAPIRO, J. M., "Embedded Image Coding Using Zerotrees of Wavelet Coefficients", <u>IEEE Transactions on Signal Processing</u> , 12/93, No. 12, pp. 3445-3462.
<i>[Signature]</i>		SMITH, et al., "Exact Reconstruction Techniques for Tree-Structured Subband Coders", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol ASSP-34, No. 3, June 1986, pp. 434-441.
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<i>[Signature]</i>		VILLASENOR, et al., "Filter Evaluation and Selection in Wavelet Image Compression", <u>IEEE</u> , 1994, pp. 351-360.
<i>[Signature]</i>		WESTERNICK, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band coding of Images Using Predictive Vector Quantization", p. 1378-1381.
<i>[Signature]</i>		WOODS, "Subband Image Coding", 1991, pages 101-108, 163-167, and 180-189.
<i>[Signature]</i>		WOODS, et al., "Subband Coding of Images", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol. 1 ASSP-34, No. 5, October 1986, pp. 1278-1288.
<i>[Signature]</i>		WOODS, et al., "Sub-band coding of Images", <u>Proceedings ICASSP 86</u> , Tokyo, Japan, April 1986, p. 1005-1008.
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<i>[Signature]</i>		XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.

Examiner Signature	<i>[Signature]</i>	WENPENG CHEN PRIMARY EXAMINER	Date Considered	1/6/05
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~~None~~

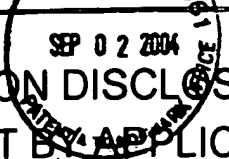
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>Substitute for Form 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p> </div> <div style="text-align: center;">  </div> </div>				<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>09/800,932</td></tr> <tr><td>Filing Date</td><td>March 6, 2001</td></tr> <tr><td>First Named Inventor:</td><td>Michael J. Gormish</td></tr> <tr><td>Art Unit</td><td>2624</td></tr> <tr><td>Examiner Name</td><td>Chen, Wenpeng</td></tr> <tr><td>Attorney Docket Number</td><td>74451.P127D1</td></tr> </table>		Application Number	09/800,932	Filing Date	March 6, 2001	First Named Inventor:	Michael J. Gormish	Art Unit	2624	Examiner Name	Chen, Wenpeng	Attorney Docket Number	74451.P127D1
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Sheet	1	of 2															
U.S. PATENT DOCUMENTS																	
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear											
		Number-Kind Code ² (if known)															
[Handwritten signature]		US-	2001/0003544 A1	06-14-2001	Kajiwara et al.												
		US-	5,303,200	04-12-1994	Elrod et al.												
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

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[Signature]		CHAE, ET AL., Blocking Artifact Reduction in JPEG-Coded Images, IEEE 0-7803-5467-2, pgs. 894-898, published 24-28 Oct. 1999, © 1999 IEEE.			
[Signature]		International Standard, Information Technology - JPEG 2000 image coding system - Part 1: Core coding system, ISO/IEC 15444-1, First edition 2000-12-15, pgs. ii-226.			

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